

## ABSTRACT

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The activity conducted was a research related to study on water quality in Tambakboyoy Lake viewed from Electricity Induction Power (DHL). This research was aimed to know water quality level viewed from Electricity Induction Power (DHL) and to know how to improve Tambakboyoy Lake potential to water availability suitable with water quality and also tourism, conservation and advantage for the society around Tambakboyoy Lake, Ngemplak District, Sleman Regency, Yogyakarta Special Province.

This research used a Survey and Laboratory Method. The research method was conducted in some steps among others: preparation step, field work step, laboratory work step, analysis step, evaluation step and report setting step. Survey Method was conducted by measuring water quality physical nature around Tambakboyoy Lake by viewing its water color. Laboratory Method was conducted by measuring water quality based on Electricity Induction Power (DHL).

From the laboratory test research result in Tambakboyoy Lake area, Electricity Induction Power (DHL) nature fulfilled a quality standard suitable with Quality Standard according to Republic of Indonesia's Regulation Number 907/PERMENKES/2002 on quality standard of 1000  $\mu\text{mhos/cm}$ . From research result, water sample was taken from some points namely Tambakboyoy Lake Outlet River Inlet, Public Well, Irrigation. From laboratory research result of water inlet, DHL value ranged from 263  $\mu\text{mhos/cm}$  – 296  $\mu\text{mhos/cm}$  was suitable with quality standard. From public well laboratory research result, DHL value ranged from 215  $\mu\text{mhos/cm}$  – 444.5  $\mu\text{mhos/cm}$  was suitable with quality standard. From irrigation water laboratory research result around Tambakboyoy Lake ranged from 230.5  $\mu\text{mhos/cm}$  – 332  $\mu\text{mhos/cm}$  was suitable with quality standard. From the research result it showed that water quality value around Tambakboyoy Lake viewed from Electricity Induction Power (DHL) suitable with quality standard and water quality could be classified in good scale according to The Decree of The Minister of Population and Live Environment (KLH) Number 49/1987.

**Keywords:** *Water Quality, DHL.*